	Application No.	Applicant(s)	. (
A	10/791,759	BONSER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Long K. Tran	2818	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-88 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED 5) or other appropriate com RIGHTS. This application	In this application. If not included imunication will be mailed in due cours	se. THIS
1. This communication is responsive to <u>01/11/2006</u> .			
2. ☑ The allowed claim(s) is/are <u>1-4 and 6-8</u> .			
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	ve been received.		
3. Copies of the certified copies of the priority of	locuments have been recei	ved in this national stage application f	from the
International Bureau (PCT Rule 17.2(a)).	, .		
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IMENT of this application.	•	
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi 			JE OF
5. CORRECTED DRAWINGS (as "replacement sheets") m	ust be submitted.		
(a) I including changes required by the Notice of Draftspe	erson's Patent Drawing Rev	riew (PTO-948) attached	
¹ 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	_		
(b) including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Commen	t or in the Office action of	•
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			k) of
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMEN 			the
		· .	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of	f Informal Patent Application (PTO-15	2)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948		Summary (PTO-413),	-,
	Paper N	lo./Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 	3/08), 7. ☐ Examine	r's Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	/) .	r's Statement of Reasons for Allowan	ce
	9. Other _	·	
•	David Nelms		
Supervis	sory Patent Examiner ology Center 2800		
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DETAILED ACTION

Response to Amendment

1. This office action is in response to Amendment filed on 01/11/2006.

- 2. Claim 5 has been cancelled.
- 3. Claim 1 has been amended.
- 4. Claim 8 has been added.
- 5. Claims 1 4 and 6 8 are presented for examination.

EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Brian Seidleck on 03/23/06.

The application has been amended as follow:

Claim 6, line 1: change "to claim 5" to --to claim 1--.

Allowable Subject Matter

- 7. Claims 1 4 and 6 8 are allowed.
- 8. The following is an examiner's statement of reasons for allowance: Claims 1 4 and 6 8 are allowable over the prior art of record because none of the prior art whether taken singularly or in combination, especially when these limitations are considered within the specific combination claimed, to teach:

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steps of implanting impurities through a nitride polish stop layer to form source/drain regions as cited in the independent claim 1; etching to remove part of an upper surface of the insulating material filling the trench until the insulating material filling is substantially coplanar with the upper surface of the semiconductor substrate as cited in the independent claim 8; and among other limitations as cited in the independent claims 1 and 8.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long K. Tran whose telephone number is 571-272-1797. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Long Tran

March 24, 2006

David Nelms
Supervisory Patent Examiner

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